

## Windbreak Interpretations

Farmstead windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low-growing and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, increase crop yields, and provide food and cover for wildlife.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters a tree or shrub may be well or poorly suited because of soil characteristics. Each tree or shrub also has definable potentials of height growth based on the soil type and climate.

Information in this subsection, which includes windbreak suitability groups and a windbreak and environmental plantings table, can be used as a guide in planning windbreaks and screens.

*This subsection includes:*

- **(a) Trees and Shrubs for Windbreak and Environmental Plantings**

## Windbreak Suitability Groups

Map symbol	Soil name	Component name	Windbreak suitability group
15002	McGirk silt loam, 1 to 3 percent slopes-----	McGirk	4
60001	Menfro silt loam, 5 to 9 percent slopes-----	Menfro	3
60002	Menfro silt loam, footslopes, 5 to 9 percent slopes-----	Menfro	3
60003	Menfro silt loam, 9 to 14 percent slopes, eroded-----	Menfro	3
60004	Menfro silt loam, 14 to 20 percent slopes, eroded-----	Menfro	3
60005	Menfro silt loam, 20 to 35 percent slopes-----	Menfro	3
60006	Marion silt loam, 2 to 5 percent slopes-----	Marion	4
60007	Menfro-Gatewood complex, 20 to 50 percent slopes-----	Menfro	3
		Gatewood	6D
64000	Raccoon silt loam, 0 to 3 percent slopes, rarely flooded-----	Raccoon	2
64001	Freeburg silt loam, 0 to 3 percent slopes, rarely flooded-----	Freeburg	1
64002	Freeburg silt loam, 1 to 3 percent slopes-----	Freeburg	1
64003	Freeburg silt loam, 3 to 8 percent slopes-----	Freeburg	1
66003	Jemerson silt loam, 0 to 2 percent slopes, rarely flooded-----	Jemerson	3
66004	Dockery silt loam, 0 to 2 percent slopes, frequently flooded-----	Dockery	1
66005	Deible silt loam, 0 to 2 percent slopes, rarely flooded-----	Deible	2
66006	Waldron silty clay loam, 0 to 2 percent slopes, occasionally flooded----	Waldron	1
66007	Leta silty clay, 0 to 2 percent slopes, occasionally flooded-----	Leta	4C
66008	Leta silt loam, 0 to 2 percent slopes, overwash, occasionally flooded---	Leta	1K
66009	Haynie silt loam, 0 to 2 percent slopes, occasionally flooded-----	Haynie	1
66010	Sarpy fine sand, 0 to 2 percent slopes, frequently flooded-----	Sarpy	1
66011	Moville silt loam, 0 to 2 percent slopes, occasionally flooded-----	Moville	1
66012	Blake silt loam, 0 to 2 percent slopes, frequently flooded-----	Blake	1
66013	Waldron silt loam, 0 to 2 percent slopes, rarely flooded-----	Waldron	1
70028	Moko-Rock outcrop complex, 3 to 15 percent slopes, very stony-----	Moko	10
		Rock outcrop	---
70029	Moko-Rock outcrop complex, 15 to 50 percent slopes, very stony-----	Moko	10
		Rock outcrop	---
73035	Gravois silt loam, 8 to 15 percent slopes-----	Gravois	4
73088	Rueter very gravelly silt loam, 8 to 15 percent slopes, very stony-----	Rueter	10
73089	Rueter very gravelly silt loam, 15 to 35 percent slopes, very stony-----	Rueter	10
73090	Useful silt loam, 3 to 8 percent slopes-----	Useful	3
73091	Useful silt loam, 8 to 15 percent slopes, eroded-----	Useful	3
73092	Gatewood very gravelly silt loam, 3 to 8 percent slopes, stony-----	Gatewood	6D
73093	Gatewood very gravelly silt loam, 8 to 15 percent slopes, stony-----	Gatewood	6D
73094	Gatewood very gravelly silt loam, 15 to 35 percent slopes, stony-----	Gatewood	6D
73095	Gravois silt loam, 15 to 20 percent slopes-----	Gravois	10
73096	Swiss gravelly silt loam, 8 to 15 percent slopes, stony-----	Swiss	4
73097	Swiss gravelly silt loam, 15 to 35 percent slopes, stony-----	Swiss	4
73098	Plato silt loam, 1 to 3 percent slopes-----	Plato	4
73099	Plato silt loam, 3 to 8 percent slopes-----	Plato	4
73100	Wrengart silt loam, 2 to 5 percent slopes-----	Wrengart	3
73101	Wrengart silt loam, 5 to 9 percent slopes-----	Wrengart	3
73102	Wrengart silt loam, footslopes, 5 to 9 percent slopes-----	Wrengart	3
73103	Wrengart silt loam, 9 to 14 percent slopes-----	Wrengart	3
73104	Wrengart silt loam, 14 to 20 percent slopes, eroded-----	Wrengart	3
73105	Wrengart-Gatewood complex, 14 to 35 percent slopes-----	Wrengart	3
		Gatewood	6D
73106	Mariosa silt loam, 0 to 2 percent slopes-----	Mariosa	2
73107	Wrengart-Swiss complex, 5 to 9 percent slopes-----	Swiss	4
		Wrengart	3
73108	Gravois-Gatewood complex, 3 to 8 percent slopes-----	Gravois	4
		Gatewood	6D
73109	Alred gravelly silt loam, 15 to 35 percent slopes, stony-----	Alred	10
73110	Gravois-Gatewood complex, 15 to 35 percent slopes-----	Gravois	4
		Gatewood	6D
73112	Gunlock silt loam, 3 to 8 percent slopes-----	Gunlock	3
73135	Union silt loam, 3 to 8 percent slopes-----	Union	6D
74633	Hartville silt loam, 1 to 3 percent slopes-----	Hartville	4
74634	Hartville silt loam, 3 to 8 percent slopes-----	Hartville	4
74635	Tanglenook silty clay, 0 to 2 percent slopes, rarely flooded-----	Tanglenook	2
75376	Cedargap gravelly silt loam, 0 to 3 percent slopes, frequently flooded--	Cedargap	1
75391	Possumtrot fine sandy loam, 0 to 3 percent slopes, occasionally flooded-	Possumtrot	1

Windbreak Suitability Groups--Continued

Map symbol	Soil name	Component name	Windbreak suitability group
75395	Jamesfin silt loam, 0 to 3 percent slopes, occasionally flooded-----	Jamesfin	1
75398	Kaintuck fine sandy loam, 0 to 3 percent slopes, frequently flooded-----	Kaintuck	1
75399	Jamesfin silt loam, 0 to 3 percent slopes, frequently flooded-----	Jamesfin	1
75400	Gladden silt loam, 0 to 3 percent slopes, frequently flooded-----	Gladden	1
75407	Gabriel silt loam, 0 to 2 percent slopes, rarely flooded-----	Gabriel	1
99000	Pits, quarries-----	Pits, quarries	---
99001	Water-----	Water	---
99003	Miscellaneous water-----	Water	---